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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF :  
ANDREJ S. MITROVIC : EXAMINER: SAXENA, AKASH  
SERIAL NO: 10/673,583 :  
FILING DATE: SEPTEMBER 30, 2003 : GROUP ART UNIT: 2128  
FOR: SYSTEM AND METHOD FOR :  
USING FIRST-PRINCIPLES  
SIMULATION TO PROVIDE VIRTUAL  
SENSORS THAT FACILITATE A  
SEMICONDUCTOR MANUFACTURING  
PROCESS

AMENDMENT UNDER 37 C.F.R. § 1.116

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

In response to the Office Action dated June 2, 2008, please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 14 of this paper.